

Index	Wednesday, June 16, 2021, 8:00-11:00 AM US-EDT	Thursday, June 17, 2021, , 8:00-11:00 AM US-EDT
Logistics	<ul style="list-style-type: none"> • 2021 IASE Conference on Statistics Education in the Era of Data Science (Distance/virtual event) • Welcome: Sessions F3-F4 (Promoting Data Literacy and Statistical Literacy & Statistics and Data Science for Social Good) • European CEST Date/Time: Wednesday, September 1, 2021, CEST 2:00AM - 3:30AM (early morning). • US EDT Date/Time: Tuesday, August 31, 2021, EDT 20:00-21:30 (evening) • Registration: Participants have to register to attend in advance (Per ISI/IASE registration for students is free). • Program: Sessions F3-F4 (Promoting Data Literacy and Statistical Literacy & Statistics and Data Science for Social Good) • Virtual Connection: Whova/Zoom. • Talk Title (Speaker): <i>Probability Distributome – Computing, Visualization, and Instruction</i> • Paper Authors: Jared Tianyi Chai, Mark Bobrovnikov, and Ivo Dinov, SOCR, University of Michigan. • Other Presenters in the F3-F4 session: Claudia C. Sutter, Hamid R. Sanei, Courtney Donovan. 	
Abstract	<p>The concept of a probability distribution is in the core of all modern data-driven modeling, simulation, analytics, inference, prediction, and prognostication of observable natural phenomena. Despite the large number of possible probability distributions and their significant heterogeneity, only dozens of distributions are named and well understood, many are interconnected, and all of them span the universe of all possible physical processes. This manuscript presents the probability Distributome, which allows navigation, exploration and learning of many univariate distributions, and facilitate the computation and visualization associated with univariate, bivariate and trivariate probability distributions. We illustrate applications of three specific resources. All resources are freely accessible, open-source, and platform agnostic. Both learners and instructors may utilize, expand, improve, and customize these tools for their specific research and education needs.</p>	
Distributome	http://Distributome.org : HTML5/JavaScript applications; Distribution Navigators, Calculators, Simulators, Experiments	
RShiny apps	https://socr.umich.edu/html/dist : RShiny probability calculation apps	
2D & 3D Plotly apps	https://socr.umich.edu/HTML5/BivariateNormal/BVN2/ Interactive 2D and 3D Plotly apps	
See Also	<ul style="list-style-type: none"> • DSPA ISI/WSC Summer Course Overview (ISI/WSC, prereqs, vision, objectives, outcomes, Website) (Instructor: Ivo Dinov; Course Coverage) • SOCR Resources: Datasets & Case-studies, Webapps, DSPA, Spacekime/TCIU, GitHub, Prob & Stats EBook, SMHS EBook, Current SOCR Users • Open Science – <i>It's online, therefore it exists!</i> • Download DSPA Textbook (free) Resource Search & Navigation , Language Translations	

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